

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 17 JAN 2006



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Applicant's or agent's file reference 04FREF022PCT	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. <b>PCT/KR2004/000608</b>	International filing date(day/month/year) <b>19 MARCH 2004 (19.03.2004)</b>	Priority date (day/month/year) 15 DECEMBER 2003 (15.12.2003)	
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 F25D 23/00</b>			
Applicant <b>LG ELECTRONICS INC. et al</b>			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
- a. ☐ (sent to the applicant and to the International Bureau) a total of \_\_\_\_\_ sheets, as follows:
- ☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
- ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
- b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand  <b>30 MAY 2005 (30.05.2005)</b>	Date of completion of this report  27 DECEMBER 2005 (27.12.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  KIM, Eun Rae  Telephone No. 82-42-481-5518 

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/000608

**Box No. I Basis of the report**

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☒ This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☒ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished

- ☐ the description:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

- ☐ the claims:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

- ☐ the drawings:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/000608

## Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

### 2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

- D1: KR 2002-57634 A (12 July 2002)
- D2: KR 2002-29506 A (19 April 2002)
- D3: KR 2001-113400 A (28 December 2001)
- D4: JP 2002-243354 A (28 August 2002)
- D5: JP 2001-324258 A (22 November 2001)

#### 1. Novelty and Inventive Step

Claims 1-10 relate to the installation structure of a communication pad for a refrigerator, which is to tilt the communication pad supported by a holder to any positions a user wants. To achieve said purpose, a securing space is formed to install the communication pad on a front surface of a refrigerator door, and slots are formed in a left and right direction at upper and lower portions of said securing space. Said slots are connected to said communication pad by a link, one end of said link being connected in such a manner as to be capable of rotating along said slots, and the other end of said link being connected in such a manner as to be capable of rotating at the holder of the communication pad.

D1 to D3 relate to a refrigerator having a monitor, wherein a display panel of the monitor is maintained flat, parallel to the door surface at a usual time, but can be tilted by a driving means in an up and down direction at a predetermined angle, if necessary.

Claims 1-10 are similar to said documents D1-D3 in the feature of tilting the display panel when a user needs to do so; and claims 2, 7 and 8 are also similar to documents D4 and D5 in the feature of installing the display panel on the holder provided at a front surface of a refrigerator.

(Continued on Supplemental Sheet.)

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

PCT/KR2004/000608

**Supplemental Box**

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:

Box V.

However, claims 1–10 are different from said documents D1–D5 in that the present invention has a link for pulling out and pushing in the communication pad in a direction toward the front surface of the refrigerator door so as to tilt said communication pad in a left and right direction.

Therefore, the subject matter of claims 1–10 is considered to be novel and to involve an inventive step under PCT Article 33(2) and 33(3).

**2. Industrial Applicability**

Since claims 1–10 are directed to the installation structure of a communication pad for a refrigerator, the subject matter of said claims is considered to be industrially applicable under PCT Article 33(4).